

# **Appendix 5-11: STA Black-Necked Stilt Nesting Summary for Water Year 2008**

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**1EObs : Form**

### STA-1E Migratory Bird Nest Observation Entry Sheet for Levee Surveys

**Step One: Check the Levee of Observation**

Map Labels: S-319, WDC, EDC, WCA-1, Arthur R. Marshall Loxahatchee National Wildlife Refuge, Cell 7, Cell 5, Cell 3, Cell 1, Cell 4N, Cell 2, Cell 6, Cell 4S, S-362, N

**Observer Comments**

Date:

Latitude of Observer:   
(dd mm ss)

Longitude of Observer:   
(dd mm ss)

Number of Nest:

Distance of Nest(s) from Observer (ft):

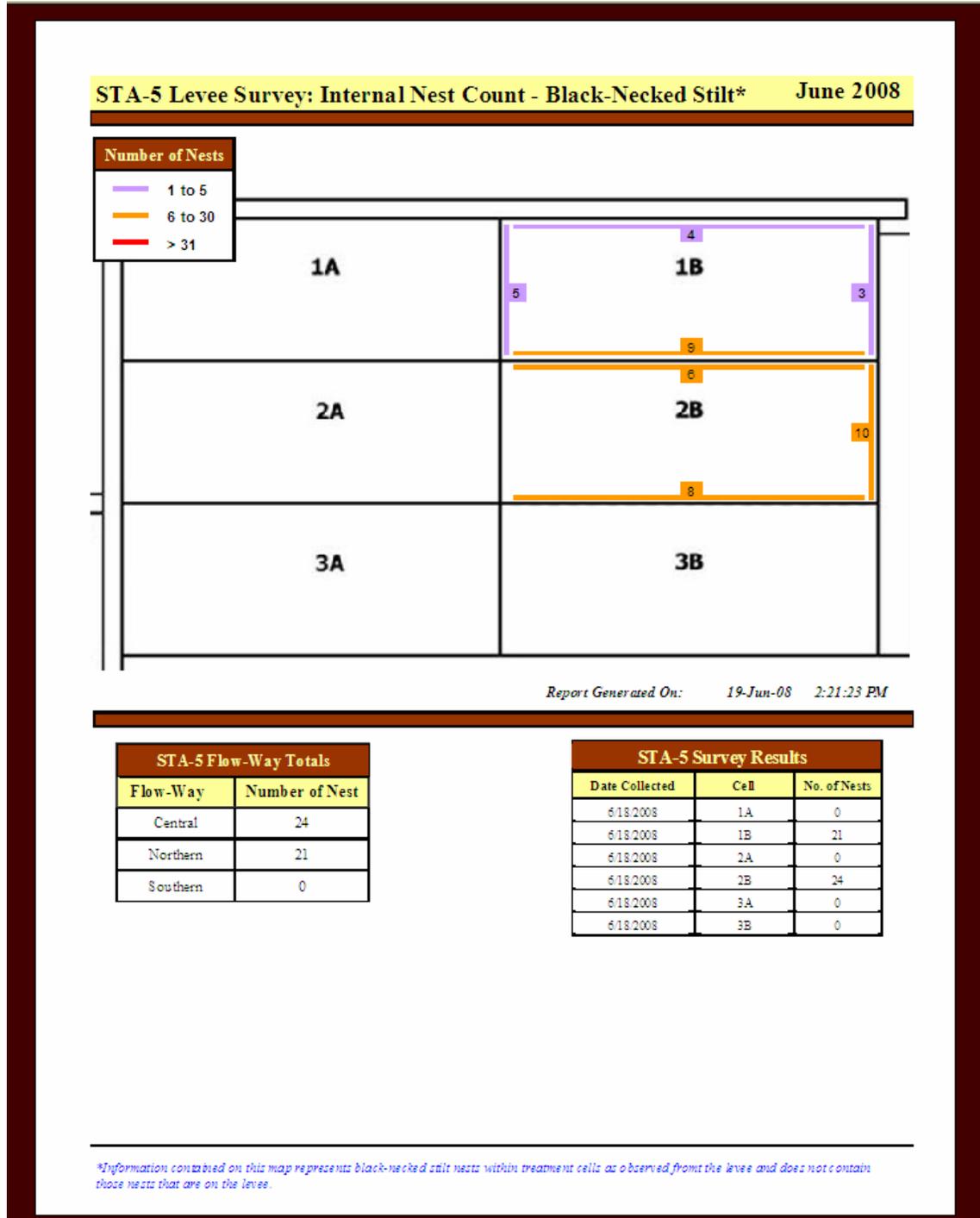
Initials:

Comments:

Goto Next Observation (Enter)

Other Record Navigation

**Figure 1.** A sample of standardize migratory bird nest observation entry database interface for data entry in the field.



**Figure 2.** Example of a standardized migratory bird nest report for black-necked stilts (*Himantopus mexicanus*) surveyed from the levee.

**Table 1.** Calendar year 2008 black-necked stilt breeding season surveys for each Stormwater Treatment Area (STA). Nesting surveys were taken from levee and consisted of three types of surveys: monthly, supplemental, and spot.

<b>STA-1E</b>					
<b>Flow-way</b>	<b>Cell</b>	<b>Black-necked Stilt Nests Inside Treatment Cells as Observed from the Levee</b>			
		<b>Monthly</b>	<b>Supplemental</b>	<b>Spot</b>	<b>Monthly</b>
		<b>5/15/08</b>	<b>6/4/08</b>	<b>6/13/08</b>	<b>6/19/08</b>
Eastern	1	0	0	N-S	0
	2	0	0	N-S	0
Central	3	2	0	N-S	0
	4N	42	49	N-S	0
	4S	0	0	N-S	0
Western	5	3	0	1	0
	6	18	3	0	0
	7	2	1	0	0
Distribution Cells	East	2	0	N-S	0
	West	0	0	N-S	0
<b>Totals</b>		<b>69</b>	<b>53</b>	<b>50</b>	<b>0</b>

<b>STA-1W</b>					
<b>Flow-way</b>	<b>Cell</b>	<b>Black-necked Stilt Nests Inside Treatment Cells as Observed from the Levee</b>			
		<b>Monthly</b>	<b>Supplemental</b>	<b>Spot</b>	<b>Monthly</b>
		<b>5/14/08</b>	<b>6/7/08</b>	<b>6/13/08</b>	<b>6/19/08</b>
Eastern	1A	1	0	N-S	0
	1B	0	0	N-S	0
	3	3	3	1	0
Western	2A	2	0	N-S	0
	2B	0	14	N-S	0
	4	0	0	N-S	0
Northern	5A	0	0	N-S	0
	5B	8	8	6	0
<b>Totals</b>		<b>16</b>	<b>26</b>	<b>22</b>	<b>0</b>

**Table 1.** Continued.

<b>STA-2</b>			
<b>Flow-way</b>	<b>Cell</b>	<b>Black-necked Stilt Nests Inside Treatment Cells as Observed from the Levee</b>	
		<b>Monthly</b>	<b>Monthly</b>
		<b>5/13/08</b>	<b>6/23/08</b>
None	1	0	0
	2	0	0
	3	0	0
	4	16	0
<b>Totals</b>		<b>16</b>	<b>0</b>

<b>STA-3/4</b>				
<b>Flow-way</b>	<b>Cell</b>	<b>Black-necked Stilt Nests Inside Treatment Cells as Observed from the Levee</b>		
		<b>Monthly</b>	<b>Monthly</b>	<b>Spot</b>
		<b>5/14/08</b>	<b>6/17/08</b>	<b>6/24/08</b>
Eastern	1A	0	0	N-S
	1B	0	0	N-S
Central	2A	6	0	N-S
	2B	0	0	N-S
PSTA	USAV	0	0	N-S
	LSAV	0	1	0
	PSTA	0	0	N-S
Western	3A	0	0	N-S
	3B	1	1	0
<b>Totals</b>		<b>7</b>	<b>2</b>	<b>0</b>

**Table 1.** Continued.

<b>STA-5</b>						
<b>Flow-way</b>	<b>Cell</b>	<b>Black-necked Stilt Nests Inside Treatment Cells as Observed from the Levee</b>				
		<b>Monthly</b>	<b>Monthly</b>	<b>Spot</b>	<b>Spot</b>	<b>Spot</b>
		<b>5/21/08</b>	<b>6/19/08</b>	<b>6/24/08</b>	<b>6/30/08</b>	<b>7/3/08</b>
Northern	1A	0	0	N-S	N-S	N-S
	1B	2	21	2	1	0
Central	2A	0	0	N-S	N-S	N-S
	2B	66	24	4	0	N-S
Southern	3A	3	0	N-S	N-S	N-S
	3B	2	0	N-S	N-S	N-S
<b>Totals</b>		<b>73</b>	<b>45</b>	<b>6</b>	<b>1</b>	<b>0</b>

<b>STA-6</b>			
<b>Flow-way</b>	<b>Cell</b>	<b>Black-necked Stilt Nests Inside Treatment Cells as Observed from the Levee</b>	
		<b>Monthly</b>	<b>Monthly</b>
		<b>5/20/08</b>	<b>6/19/08</b>
None	Section 2	0	0
	3	0	0
	5	0	0
<b>Totals</b>		<b>0</b>	<b>0</b>

**Table 2.** Comparison of the 2007 and 2008 Breeding Season Nesting Surveys for black-necked stilts. Data contained in this table is derived from levees surveys in submerged aquatic vegetation (SAV) treatment cells.

STA	Cell	2007 Breeding Season			2008 Breeding Season		
		Date	Water Depth	Nests	Date	Water Depth	Nests
1E	4N	5/15/07	0.63	48	5/15/08	1.53	42
	4S	5/15/07	1.04	20	5/15/08	1.97	0
	6	5/15/07	0.98	2	5/15/08	1.31	18
1W*	5B	5/11/07	0.55	111	5/14/08	1.34	8
2**	3	5/14/08	0.69	66	5/13/08	1.15	0
3/4	1B	5/21/07	1.02	3	5/14/08	1.57	0
	2B	5/21/07	0.66	0	5/14/08	1.49	0
	3B	5/21/07	0.39	15	5/14/08	1.41	1
5	1B	5/24/07	-0.36	100	5/21/08	1.11	2
	2B	5/24/07	-1.45	42	5/21/08	0.41	66
<b>Totals</b>		<b>2007</b>	<b>0.4</b>	<b>407</b>	<b>2008</b>	<b>1.3</b>	<b>137</b>

\* STA-1W, Cell 5B was the only SAV treatment cell used in this comparison due to rehabilitation efforts in Cells 1B, 2B, 3, and 4.

\*\*STA-2, Cell 3 was the only SAV treatment cell used in this comparison due to unavailable stage data for Cell 4 during the 2007 breeding season.